

C L A I M S

1. A yarn texturing machine comprising
a plurality of yarn processing units which
are serially arranged along a yarn path of travel leading
5 to a takeup device,

a threading device for initially threading
a yarn along at least a portion of the path of travel,
said threading device comprising a guide tube and an air
injector connected to the guide tube, with the guide tube
10 including a suction inlet for taking in the yarn and a
blow outlet for ejecting the yarn, and

a cutting device positioned adjacent the
suction inlet for cutting the yarn while it is being
initially threaded into the suction inlet.

15 2. The yarn texturing machine of claim 1
wherein the cutting device comprises a cutting blade and
a movable yarn guide positioned to move the yarn into
engagement with the cutting blade to cut the yarn and so
that the cut end of the yarn is drawn into the suction
20 inlet.

3. The yarn texturing machine of claim 2
wherein the yarn guide is mounted at the free end of a
pivotally mounted elongate strap, and wherein the yarn
may be pivoted to a threading position where the retained
25 yarn engages the cutting blade and is within a range of
suction of the suction inlet.

4. The yarn texturing machine of claim 1
wherein the guide tube includes a heater having a closed
heating channel and an inlet end, and such that the inlet
30 end of the heater forms the suction inlet.

5. The yarn texturing machine of claim 1
wherein the plurality of yarn processing units include a
feed system positioned upstream of the guide tube and so
that the yarn leaving the feed system is aligned with the
5 suction inlet.

6. The yarn texturing machine of claim 5
wherein said feed system comprises a godet unit which is
mounted on a pivotal support, and wherein the cutting
device comprises a cutting blade and a yarn guide, with
10 one of said cutting blade and yarn guide being mounted to
the pivotal support and the other of the cutting blade
and yarn guide being fixedly mounted adjacent said
suction inlet.

7. The yarn texturing machine of claim 6
15 wherein the godet unit comprises a driven godet and an
associated guide roll which are looped by the yarn.

8. The yarn texturing machine of claim 1
further comprising a processing module which mounts at
least a portion of the yarn processing units, and a
20 takeup module which mounts the takeup device, with said
processing module and said takeup module being joined to
form a frame section which is arranged between a doffing
aisle which is adjacent the takeup module and a servicing
aisle which is adjacent the processing module.

25 9. The yarn texturing machine of claim 8
wherein the guide tube is arranged on the underside of
the frame section and forms at least a portion of a yarn
path between the processing module and the takeup module.

30 10. The yarn texturing machine of claim 1
further comprising a second threading device for
initially threading the yarn along a portion of the yarn

path of travel downstream of said first mentioned threading device, said second threading device comprising a second guide tube and an air injector connected to the second guide tube, and with the second guide tube positioned for advancing the yarn to the takeup device.

11. The yarn texturing machine of claim 10 wherein the second guide tube includes a blow outlet, and wherein the takeup device includes a suction device which has an opening which is aligned with the blow outlet of the second guide tube.

12. The yarn texturing machine of claim 10 wherein the second guide tube includes a suction inlet and a blow outlet, and wherein said plurality of yarn processing units includes a feed system positioned between the blow outlet of the first mentioned guide tube and the suction inlet of the second guide tube.

13. The yarn texturing machine of claim 12 wherein the blow outlet of the first mentioned guide tube and the suction inlet of the second guide tube are aligned with each other.

14. The yarn texturing machine of claim 12 wherein said feed system includes a driven feed godet and a guide roll, and a threading device for looping the yarn around the godet and guide roll.

15. A method of threading an advancing yarn onto a texturing apparatus which comprises a plurality of yarn processing units which are serially arranged along a yarn path of travel leading to a takeup device, comprising the steps of

30 positioning a guide tube along a portion of the yarn path of travel and generating an air flow

within the tube so that the tube defines a suction inlet and a blow outlet,

engaging the advancing yarn with a yarn guide and moving the yarn guide and the engaged yarn to a
5 threading position immediately upstream of the suction inlet of the guide tube and so that the yarn is cut by a cutting blade with the cut end being engaged by the suction effect at the suction inlet of the guide tube.

16. The method of Claim 15 wherein the plurality of
10 processing units comprise a yarn heater positioned to form at least an upstream end portion of the guide tube.